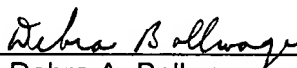




CERTIFICATION

I, Debra A. Bollwage, Assistant Secretary of Merck & Co., Inc., a Corporation duly organized and existing under the laws of the State of New Jersey, do hereby certify that the attached, presently in full force and effect, is a true and correct copy of General Corporate Resolution #5, Patent Matters, as amended by Unanimous Written Consent of the Board of Directors of said Corporation on April 24, 2001.

IN WITNESS WHEREOF, I have hereunto subscribed my signature and affixed the seal of the Corporation this 27th day of April, 2001.



Debra A. Bollwage
Assistant Secretary

(SEAL)



General Corporate Resolution #5

PATENT MATTERS

RESOLVED, that any of the following:

Raymond V. Gilmartin-Chairman of the Board, President and Chief Executive Officer
Kenneth C. Frazier-Senior Vice President and General Counsel
Joseph F. DiPrima-Vice President and Assistant General Counsel
Paul D. Matukaitis-Vice President and Assistant General Counsel
Edward W. Murray-Counsel, Litigation
Charles M. Caruso-Counsel, International
W. Gwyn Cole-Counsel-European Patents
Mark R. Daniel-Counsel, Patents
David L. Rose-Counsel, Patents
Jack L. Tribble-Counsel, Patents
Melvin Winokur-Counsel, Patents
Richard C. Billups-Assistant Counsel, Patent Practices
Donna L. Margiotto-Administrator, Patents

are authorized to execute and to revoke on behalf of Merck & Co., Inc. and its affiliates (including subsidiaries) the following documents relating to patent matters:

Powers of attorney as fully in law as may be necessary and proper in connection with the acquisition, registration, maintenance and enforcement of patents and applications for patents, including powers of attorney relating to the prosecution or defense of patent rights before courts of law or other governmental tribunals, agencies or departments; affidavits and declarations; and any other documents which are necessary and proper for the acquisition, registration, maintenance, litigation and protection of patents.



PATENT COOPERATION TREATY
General Appointment of Agent or Common Representative

The undersigned applicant(s) hereby appoints:

Sylvia A. Ayler
Richard C. Billups
Valerie J. Camara
Anna L. Cocuzzo
Joseph A. Coppola
Mark R. Daniel
Joseph F. DiPrima
Philippe L. Durette
Catherine D. Fitch
J. Antonio Garcia-Rivas
Joanne M. Giesser
J. Mark Hand
Sheldon O. Heber
James M. Hunter, Jr.
Soonhee Jang
Vineet Kohli

Shu Muk Lee
James L. McGinnis
David A. Muthard
Curtis C. Panzer
Richard S. Parr
Dianne Pecoraro
Carol S. Quagliato
David L. Rose
Anthony D. Sabatelli
J. Eric Thies
Jack L. Tribble
Nicole M. Wallinger
Kenneth R. Walton
Melvin Winokur
Mollie M. Yang
Michael D. Yablonsky
Raynard Yuro

All of Merck & Co., Inc., 126 East Lincoln Avenue, Rahway, New Jersey 07065

as agents (attorneys)

to act on his behalf before the competent International Authorities in connection with any and all International Applications filed by him and of which he is the sole applicant and to receive payments on his behalf.

[Place] Rahway, New Jersey

[Date] February 26, 2001

[Signature of Applicant]
MERCK & CO., INC.

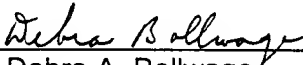
Donna L. Pollock
Donna L. Pollock
Administrator, Patents



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Debra A. Bollwage
Assistant Secretary

(SEAL)



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[Date] February 26, 2001

[Signature of Applicant]
MERCK & CO., INC.

Donna L. Pollock
Donna L. Pollock
Administrator, Patents